

Fig. 1

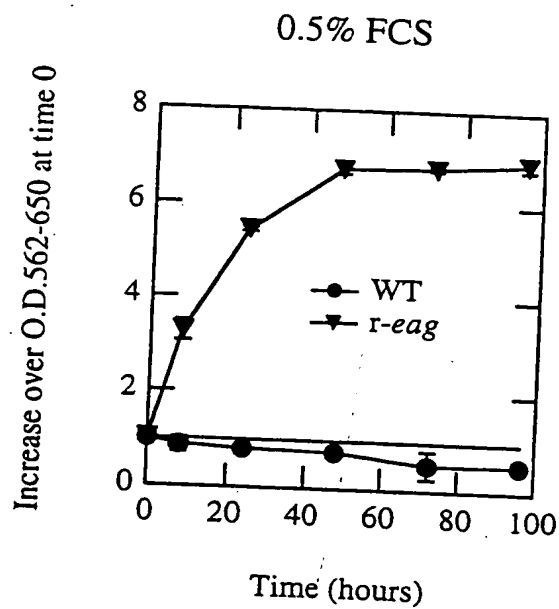


Fig. 2

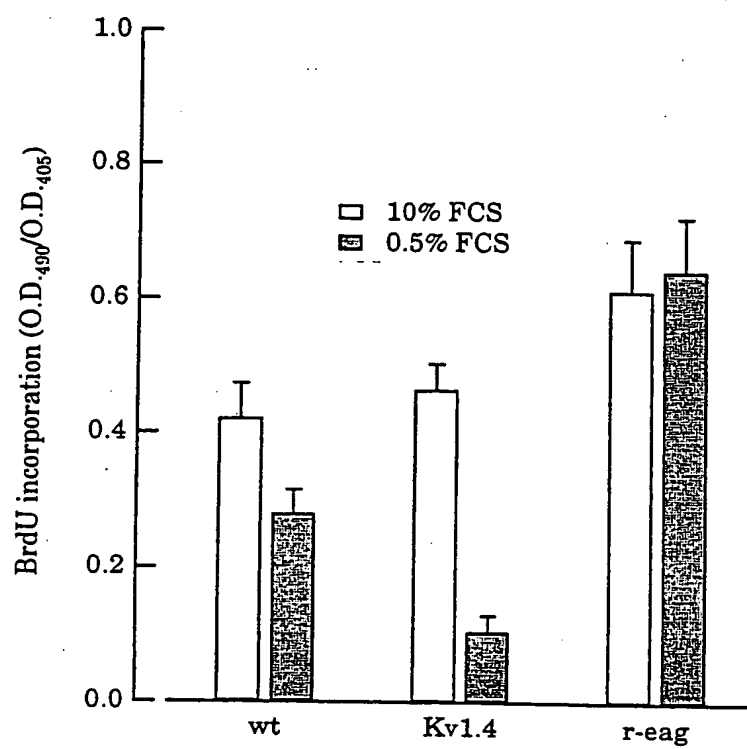


Fig. 3



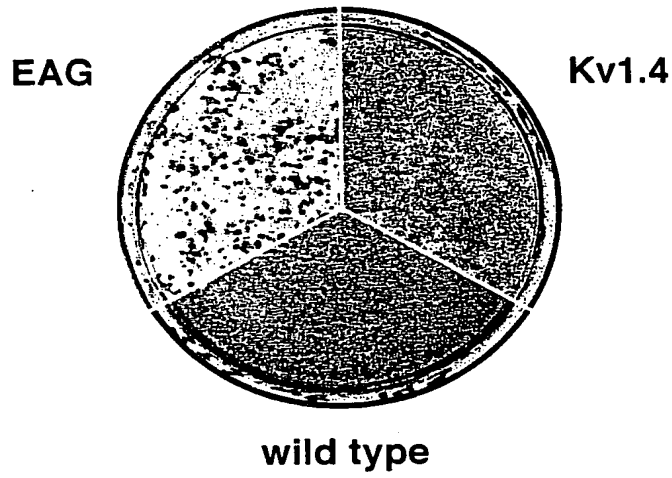


Fig. 4b

000001 22216960

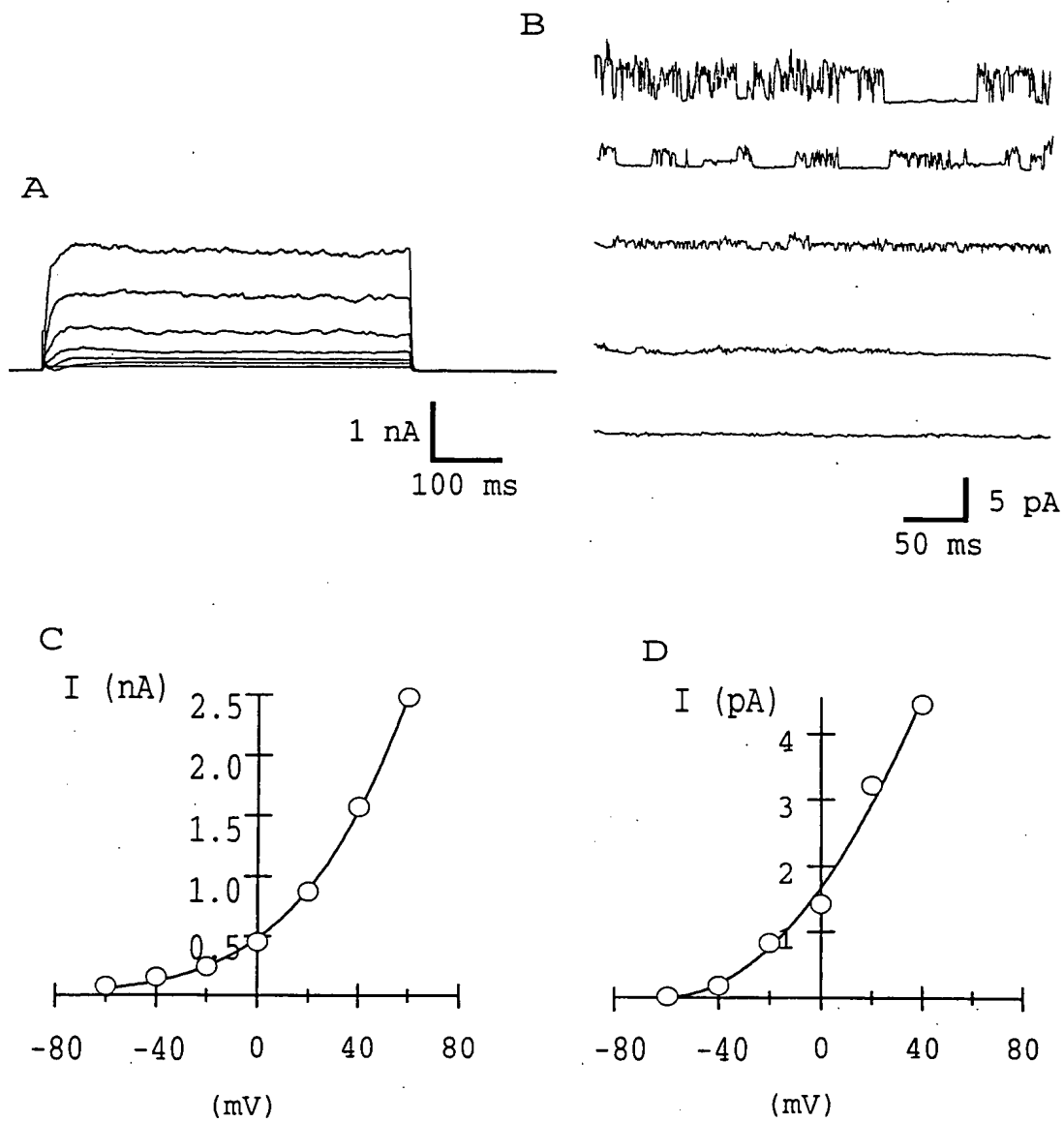
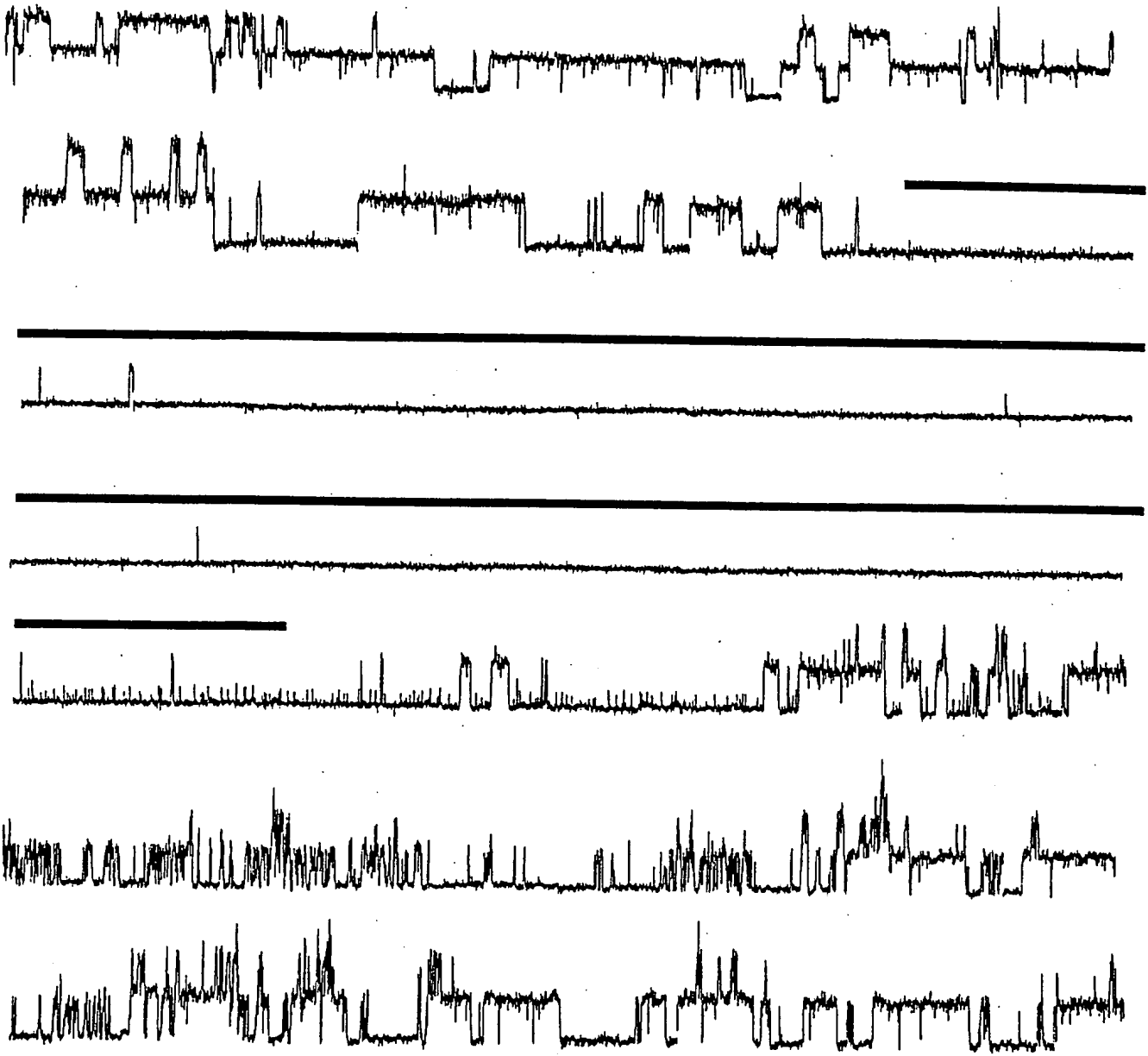


Fig. 5

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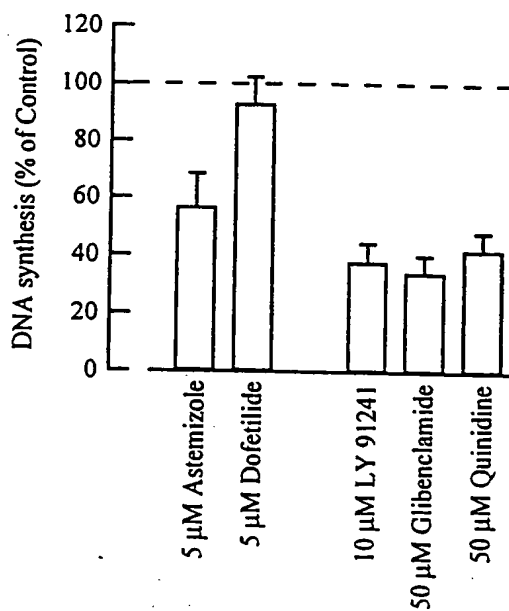


2 pA  
100 ms

5  $\mu$ M Astemizole

Fig. 6

A



B

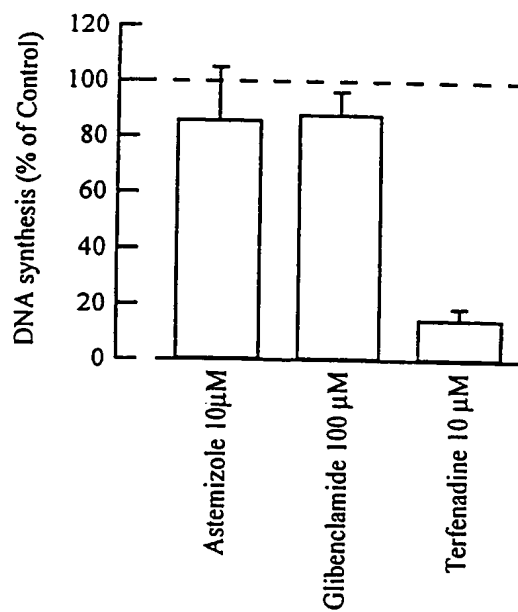


Fig. 7

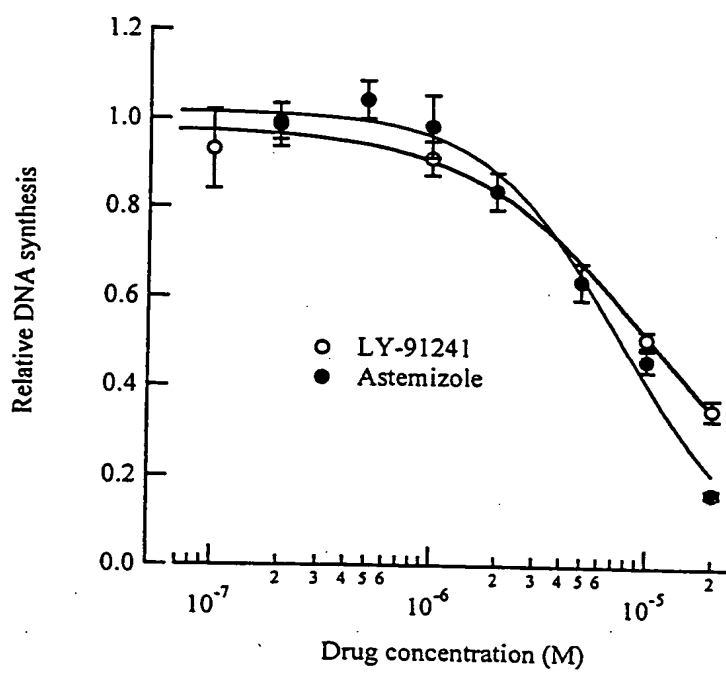


Fig. 8



000001 22246960

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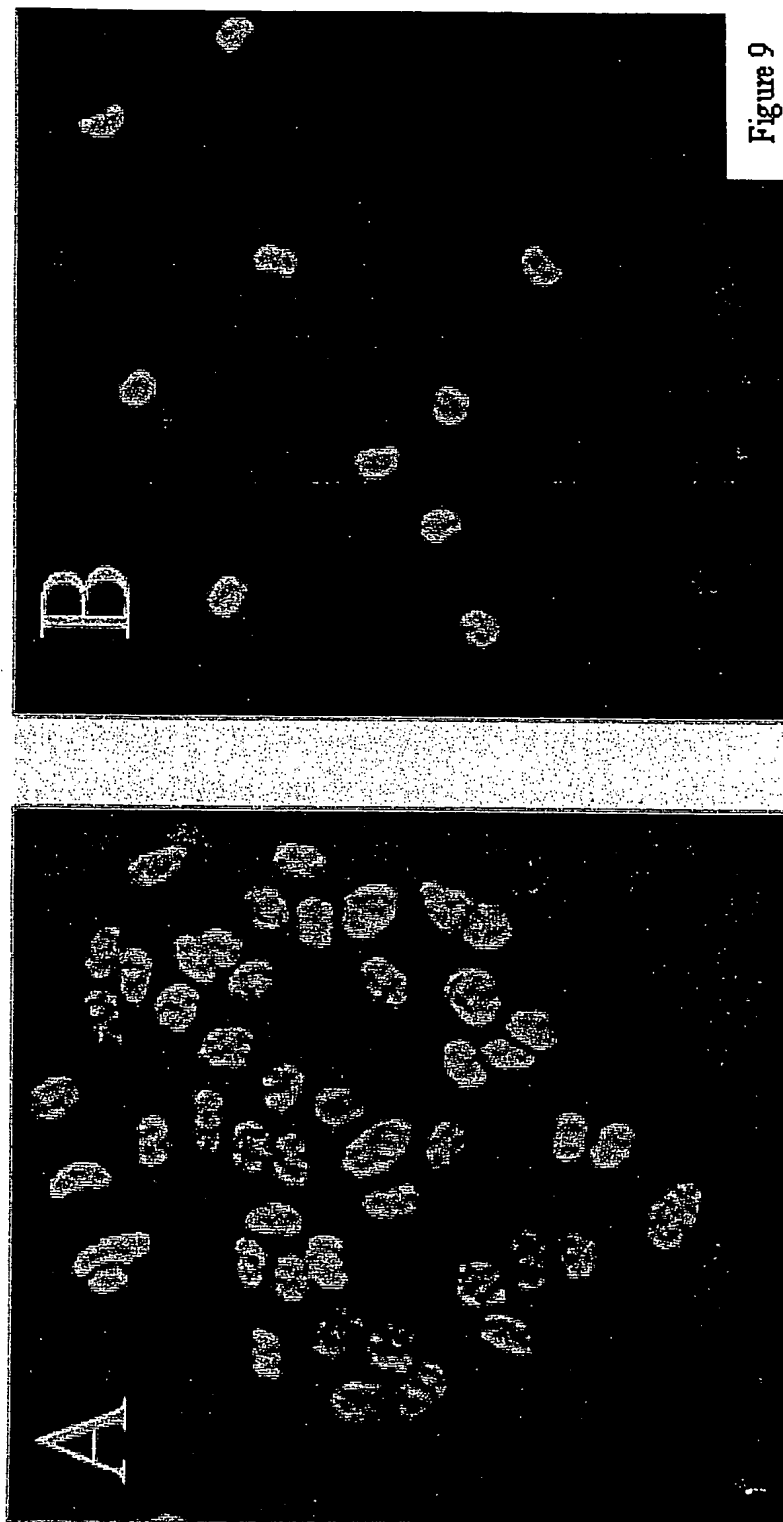


Figure 9

**Fig. 10**

heag	A	G	A	C	A	C	G	A	T	T	G	A	A	A	A	G	T	G	C	G	G	C	A	A	A	C	A	T	T	G	A	G	A	A	C	T	A	T	306		
beag	A	G	A	T	A	C	<b>C</b>	A	T	T	G	A	A	A	A	A	G	T	G	C	G	G	C	A	A	A	<b>C</b>	T	T	T	G	A	G	A	A	C	T	A	T	467	
reag	<b>G</b>	G	A	C	A	C	<b>G</b>	<b>G</b>	T	T	G	A	A	A	A	<b>G</b>	<b>G</b>	T	<b>T</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>C</b>	T	T	T	G	A	G	A	A	C	T	A	<b>C</b>	479	
heag	G	A	G	A	T	G	A	A	T	T	C	C	T	T	T	G	A	A	T	T	C	T	G	A	T	G	T	A	C	A	G	A	A	G	A	A	C	A	346		
beag	G	A	G	A	T	G	A	A	T	T	C	C	T	T	T	G	A	A	T	T	C	T	G	A	T	G	T	A	C	A	G	A	A	G	A	A	C	A	507		
reag	G	A	G	A	T	G	A	A	<b>C</b>	T	C	C	T	T	<b>C</b>	G	A	A	T	T	C	T	G	A	T	G	T	A	C	A	G	A	A	G	A	A	C	A	519		
heag	G	G	A	C	A	C	C	T	G	T	G	T	G	T	T	C	T	T	T	T	G	T	G	A	A	A	A	T	T	G	C	T	C	C	A	A	T	T	C	G	386
beag	G	G	A	C	A	C	C	T	G	T	G	T	G	T	T	C	T	T	T	T	G	T	G	A	A	A	A	T	T	G	C	T	C	C	A	A	T	T	C	G	547
reag	G	G	A	C	A	C	C	T	G	T	G	T	G	T	T	<b>T</b>	T	T	T	T	G	T	G	A	A	<b>G</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>G</b>	C	T	C	C	A	A	T	<b>C</b>	<b>A</b>	<b>G</b>	559
heag	A	A	C	G	A	A	C	A	G	G	A	T	A	A	A	A	G	T	G	G	T	T	T	A	T	T	T	T	C	T	T	G	C	A	C	T	T	C	426		
beag	A	A	C	G	A	A	C	A	G	G	A	T	A	A	A	A	A	G	T	G	G	T	T	T	A	T	T	T	T	C	T	T	T	G	C	A	C	T	T	C	587
reag	<b>G</b>	A	A	C	G	A	A	C	A	G	G	A	T	A	A	A	A	G	T	G	G	T	<b>C</b>	<b>T</b>	<b>G</b>	<b>T</b>	<b>C</b>	T	T	T	T	G	C	A	C	T	T	C	599		
heag	A	G	T	G	A	C	A	T	A	A	C	A	G	C	T	T	T	C	A	A	A	C	A	G	C	C	A	A	T	T	G	A	G	A	T	G	A	T	T	466	
beag	A	G	T	G	A	C	A	T	A	A	C	<b>C</b>	G	C	T	T	T	C	A	A	A	C	A	G	C	C	<b>G</b>	A	T	T	G	A	<b>A</b>	G	A	T	G	A	T	T	627
reag	A	G	T	G	A	C	A	T	A	A	C	<b>G</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>T</b>	<b>T</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	T	T	G	A	G	<b>G</b>	<b>A</b>	<b>C</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>T</b>	639	
heag	C	A	T	G	T	A	A	G	G	C	T	G	G	G	G	A	A	G	T	T	T	G	C	T	C	G	G	C	T	G	A	C	A	A	G	A	G	C	506		
beag	C	A	T	G	T	A	A	G	G	C	T	G	G	G	G	A	A	G	T	T	<b>C</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>T</b>	G	A	C	<b>C</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>C</b>	667			
reag	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>G</b>	<b>A</b>	<b>C</b>	T	G	A	C	<b>G</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>C</b>	679			
heag	A	C	T	G	A	C	A	A	G	C	A	G	C	A	G	G	G	G	T	G	T	C	C	T	G	C	A	G	C	A	G	C	T	G	G	C	T	C	C	A	546
beag	A	C	T	G	A	C	<b>G</b>	A	G	C	A	G	C	<b>C</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	T	G	T	C	C	T	G	C	A	G	C	A	G	C	T	G	G	C	T	C	C	<b>C</b>	707
reag	<b>T</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>C</b>	A	G	C	T	G	G	C	<b>C</b>	<b>C</b>	<b>C</b>	719		

Fig. 10 cont.

heag	A	G	C	G	T	G	C	A	A	A	G	G	C	G	A	A	T	G	T	C	C	A	C	A	G	C	A	C	T	C	C	G	C	C	586		
beag	A	G	C	G	T	G	C	A	<b>G</b>	A	A	G	G	C	G	A	A	<b>C</b>	G	T	C	C	A	C	A	A	G	C	A	C	T	C	C	<b>T</b>	C	747	
reag	A	G	<b>T</b>	G	T	G	C	A	<b>G</b>	A	A	<b>G</b>	G	<b>T</b>	G	A	A	T	G	T	<b>T</b>	C	A	C	A	A	G	C	A	C	T	C	<b>G</b>	C	C	759	
heag	T	G	G	C	A	G	A	G	G	T	C	C	T	A	C	A	G	C	T	G	G	C	T	C	A	G	A	C	A	T	C	C	C	C	A	626	
beag	T	G	G	C	<b>C</b>	G	A	G	G	T	<b>T</b>	C	T	<b>G</b>	C	A	G	C	T	G	G	C	T	C	A	G	A	C	A	T	C	C	C	C	A	787	
reag	T	G	G	C	A	G	A	G	T	C	C	T	<b>G</b>	C	A	G	C	T	G	G	<b>T</b>	T	C	A	G	A	C	A	T	C	C	<b>T</b>	C	C	A	799	
heag	G	T	A	C	A	A	G	C	A	G	G	C	A	C	C	A	A	A	G	A	C	T	C	C	C	C	C	C	T	C	A	C	A	T	C	666	
beag	G	T	A	C	A	A	G	C	A	A	G	G	C	A	C	C	A	A	A	G	A	C	T	C	C	C	C	<b>G</b>	C	A	C	A	T	C	A	827	
reag	G	T	A	C	A	A	G	C	A	A	G	G	<b>C</b>	C	C	A	A	A	G	A	C	<b>A</b>	C	C	C	C	C	T	C	A	C	A	T	C	839		
heag	T	T	A	C	A	T	T	A	T	T	G	T	G	T	T	T	T	A	A	G	A	C	C	A	C	G	T	G	G	G	A	T	T	G	A	706	
beag	T	T	A	C	A	<b>C</b>	T	A	<b>C</b>	T	G	<b>C</b>	G	T	T	T	T	A	A	G	A	C	C	A	C	G	T	G	G	A	<b>C</b>	T	G	A	T	867	
reag	<b>C</b>	T	A	C	A	<b>C</b>	T	A	<b>C</b>	T	G	T	G	T	<b>C</b>	T	T	A	A	G	A	C	C	A	C	<b>A</b>	T	G	G	A	T	T	G	A	T	879	
heag	T	C	T	T	G	A	T	C	T	T	G	A	C	C	T	T	A	T	A	C	A	G	C	C	A	T	C	T	T	G	G	T	C	C	T	746	
beag	T	C	<b>C</b>	T	G	A	T	C	<b>C</b>	T	A	<b>C</b>	C	T	T	C	T	A	<b>C</b>	A	C	A	G	C	C	A	T	C	<b>C</b>	T	G	G	T	<b>T</b>	C	C	907
reag	T	C	T	T	G	A	T	C	<b>C</b>	T	G	A	C	C	T	T	C	T	A	<b>C</b>	A	C	A	G	C	C	A	T	C	<b>C</b>	T	G	G	T	C	C	919
heag	T	A	A	T	G	T	C	T	C	C	T	T	C	A	A	A	C	C	A	G	G	C	A	T	A	A	T	G	T	G	G	C	C	T	G	G	786
beag	<b>C</b>	A	A	<b>C</b>	G	T	C	T	C	C	T	T	<b>T</b>	A	A	A	C	C	A	G	G	C	A	T	A	<b>C</b>	A	A	<b>C</b>	G	T	G	G	C	C	T	947
reag	<b>C</b>	A	<b>C</b>	G	T	C	T	C	C	T	T	<b>T</b>	A	A	A	C	C	A	G	G	C	A	T	A	A	<b>C</b>	G	T	G	G	C	C	T	G	G	959	
heag	C	T	G	G	T	T	G	T	T	G	A	T	A	G	C	A	T	C	G	T	G	G	A	T	G	T	T	T	T	T	T	T	G	G	T	G	826
beag	C	T	G	G	T	T	G	T	<b>G</b>	G	A	<b>C</b>	A	G	C	A	T	C	G	T	G	G	A	T	G	T	<b>C</b>	A	T	<b>T</b>	T	T	T	G	G	T	987
reag	C	T	G	G	T	<b>G</b>	T	<b>G</b>	G	A	<b>C</b>	A	G	C	A	T	C	G	T	G	G	A	T	G	T	<b>C</b>	A	T	<b>C</b>	T	T	T	T	G	G	T	999

Fig. 10 cont.

**Fig. 10 cont.**

heag	T	G	T	G	T	T	T	G	G	G	C	T	G	C	A	C	A	C	T	G	G	C	C	T	G	C	A	T	C	T	G	G	1146	
beag	T	G	T	G	T	T	C	G	G	G	C	T	G	C	C	T	C	A	C	T	G	G	C	C	T	G	C	A	T	T	G	G	1307	
reag	C	G	T	G	T	T	C	G	G	G	C	T	G	G	C	T	C	A	C	T	G	G	C	C	T	G	C	A	T	C	T	G	G	1319

heag T A C A G C A T T G G G G A C T A T G A G A T C T T G A C G A G G A C C A 1186  
 beag T A C A G C A T **C** G G G G A C T A T G A G A T C T T **C** G A C G A G G A C C A 1347  
 reag T A C A G C A T T G G G G A **T** T A T G A G A T C T T G A **T** G A G A C C A C C A 1359

heag	A	G	A	C	A	T	C	C	G	C	A	A	C	A	G	C	T	G	T	A	C	C	A	A	C	T	A	G	C	A	T	1226		
beag	A	G	A	C	<b>C</b>	A	T	C	C	G	C	A	A	C	A	G	C	T	<b>C</b>	T	A	C	C	A	<b>G</b>	C	T	<b>G</b>	C	C	<b>C</b>	A	T	1387
reag	A	G	A	C	<b>C</b>	A	T	C	C	G	<b>T</b>	A	A	C	A	C	T	<b>C</b>	T	A	C	C	A	A	C	T	<b>G</b>	G	C	A	T	1399		

heag	G	G	A	C	A	T	T	G	G	C	A	C	C	C	C	T	T	A	C	C	A	G	T	T	A	A	T	G	G	G	T	C	T	G	G	C	T	C	A
beag	G	G	A	C	A	T	T	G	G	C	A	C	C	C	C	T	T	A	C	C	A	G	T	T	A	A	C	G	G	G	T	C	T	G	G	C	T	C	A
reag	G	G	A	C	A	T	T	G	G	C	A	C	T	C	C	A	T	A	C	C	A	G	T	T	A	A	T	G	G	G	T	C	T	G	G	T	C	G	

heag	G	G	A	A	G	T	G	G	A	A	G	G	T	C	C	A	G	C	A	A	T	T	C	T	G	T	C	T	A	C	A	1306			
beag	G	G	A	A	G	T	G	G	A	A	G	G	<b>G</b>	G	G	T	C	C	A	G	A	A	T	T	C	<b>C</b>	G	T	C	T	A	C	A	1467	
reag	G	G	A	A	G	T	G	G	A	A	G	G	<b>C</b>	G	G	<b>G</b>	C	C	A	A	G	A	A	C	T	C	C	<b>G</b>	T	A	T	A	C	A	1479

heag T C T C T C G T T G T A T T T C A C A A T G A C C A G C C T C A C C A G T G T 1346  
 beag T C T C T C G T T G T A T T T C A C C C A T G A C C A G C C T C A C C A G C G T 1507  
 reaq T T T C C T C G C T G T A C T T C A C C C A T G A C A A G T C T C A C C A G T G T 1519

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	5
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**Fig. 10 cont.**

heag	A	T	C	T	T	G	C	A	G	T	G	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	C	A	C	T	T	C	T	C	T	1426
beag	A	T	C	T	T	T	G	C	<b>C</b>	G	T	G	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	<b>C</b>	C	T	C	T	C	T	1587	
reag	A	T	C	T	T	<b>C</b>	G	C	<b>C</b>	G	T	<b>A</b>	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	<b>C</b>	C	T	C	T	<b>G</b>	T	1599	

[illegible]

heag	G	A	T	G	T	A	T	G	C	C	A	A	C	C	A	A	C	A	G	A	T	A	C	C	A	T	G	A	T	G	C	T	C	A	C	1506		
beag	G	A	T	G	T	A	<b>C</b>	G	C	C	A	A	C	C	A	C	A	G	<b>G</b>	T	A	C	C	A	T	G	A	T	G	A	T	G	C	T	C	A	C	1667
reag	G	A	T	G	T	A	T	G	C	C	A	A	C	C	A	C	A	G	<b>G</b>	T	A	<b>T</b>	C	A	T	G	A	T	G	A	T	G	C	T	C	A	C	1679

heag	A	G	T	G	T	T	C	G	G	G	A	C	T	T	C	C	T	G	A	A	G	C	A	G	C	T	A	C	C	A	A	A	G	1546		
beag	A	G	T	G	T	<b>C</b>	C	G	G	G	A	C	T	T	C	<b>T</b>	T	G	A	A	G	C	T	A	C	T	C	T	A	C	C	A	A	<b>G</b>	G	1707
reag	A	G	<b>C</b>	G	T	<b>C</b>	C	G	G	G	A	<b>T</b>	T	T	C	C	T	G	A	A	G	C	T	A	C	T	C	T	A	C	C	A	A	<b>G</b>	G	1719

heag	G	A	T	T	G	A	G	T	A	A	T	G	G	A	T	T	A	T	T	G	T	G	T	C	C	A	C	T	G	1586	
beag	G	<b>G</b>	<b>C</b>	T	G	A	G	<b>C</b>	G	A	T	G	G	A	T	T	A	<b>C</b>	A	T	<b>C</b>	G	T	C	C	A	C	<b>C</b>	T	G	1747
reag	G	<b>G</b>	<b>C</b>	T	G	A	G	<b>C</b>	G	A	T	G	G	A	T	T	A	<b>C</b>	A	T	T	G	T	C	T	A	C	<b>C</b>	T	G	1759

[illegible]

heag	A	T	C	T	G	C	C	C	C	A	A	G	G	A	C	A	T	G	A	G	C	C	G	A	C	A	T	C	T	G	C	G	T	G	C	A	C	C	
beag	A	T	C	T	G	C	C	C	C	A	A	G	G	A	C	A	T	G	A	G	C	C	<b>G</b>	G	A	C	A	T	C	T	G	C	G	T	G	C	A	C	C
reag	A	T	C	T	G	C	C	C	C	A	A	G	G	A	C	A	T	G	<b>C</b>	G	A	G	C	T	G	A	C	A	T	T	G	C	G	T	<b>A</b>	C	A	C	C

**Fig. 10 cont.**

heag	T	G	A	A	C	C	G	C	A	A	G	G	T	G	T	T	C	A	A	G	C	C	C	G	G	C	C	T	T	C	C	G	C	T	1706				
beag	T	<b>A</b>	A	A	C	C	G	C	A	A	G	G	<b>T</b>	<b>C</b>	T	T	C	A	A	G	C	<b>A</b>	G	C	C	<b>T</b>	<b>T</b>	<b>C</b>	C	G	C	T	1867						
reag	T	G	A	A	C	C	G	<b>A</b>	<b>A</b>	A	<b>A</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>C</b>	A	A	<b>A</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>T</b>	<b>C</b>	C	G	C	T	1879						
heag	G	G	C	C	A	G	<b>T</b>	<b>C</b>	<b>A</b>	T	G	G	C	T	C	C	G	G	C	A	C	T	G	G	C	C	A	T	G	G	A	G	T	C	1746				
beag	G	G	C	C	A	G	<b>C</b>	<b>G</b>	<b>A</b>	<b>C</b>	G	G	C	<b>T</b>	<b>G</b>	C	C	A	C	T	G	G	C	C	A	T	G	G	A	G	T	T	C	1907					
reag	G	G	C	C	A	G	<b>C</b>	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>T</b>	<b>G</b>	C	<b>C</b>	<b>T</b>	T	G	G	C	C	A	T	G	G	A	G	T	T	C	1919						
heag	C	A	G	A	C	G	G	T	G	C	A	C	T	G	T	G	C	C	A	G	G	G	A	C	C	T	C	A	T	C	T	A	C	C	A	T	G	1786	
beag	C	A	G	A	C	G	G	T	G	C	A	C	T	G	<b>C</b>	G	C	C	C	<b>T</b>	G	G	G	A	C	C	T	C	A	T	C	T	A	C	C	A	<b>C</b>	G	1947
reag	C	A	G	A	C	<b>A</b>	<b>G</b>	<b>T</b>	<b>A</b>	C	A	C	T	G	<b>C</b>	G	C	C	C	A	G	G	G	A	C	C	T	C	A	T	C	T	A	<b>T</b>	C	A	<b>C</b>	G	1959
heag	C	A	G	A	G	A	G	C	G	T	T	G	A	C	A	G	C	C	T	C	T	G	C	C	T	T	G	T	G	G	T	T	C	T	C	T	G	1826	
beag	C	A	G	<b>G</b>	<b>G</b>	A	G	A	G	C	G	<b>T</b>	<b>C</b>	<b>G</b>	A	C	A	G	C	C	<b>T</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>G</b>	G	1987		
reag	C	<b>C</b>	<b>G</b>	<b>G</b>	<b>G</b>	A	G	A	G	<b>T</b>	<b>G</b>	<b>T</b>	<b>G</b>	A	C	A	G	C	C	T	C	T	G	C	T	<b>C</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>G</b>	G	1999			
heag	C	T	C	C	C	T	G	G	A	G	G	T	G	A	T	C	C	A	A	G	A	T	G	A	T	G	G	T	G	G	C	C	A	T	T	1866			
beag	C	T	C	C	C	T	G	G	A	G	G	T	G	A	T	C	C	A	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	A	T	T	2027		
reag	C	T	C	C	C	T	G	G	A	G	G	T	G	A	T	C	C	A	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	A	<b>T</b>	<b>C</b>	2039		
heag	C	T	A	G	G	A	A	A	G	G	A	G	A	C	G	T	G	T	T	G	G	A	G	A	T	G	T	T	C	T	G	G	A	A	G	G	1906		
beag	C	T	A	G	<b>G</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>G</b>	<b>T</b>	<b>G</b>	<b>T</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>G</b>	<b>T</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>G</b>	<b>A</b>	<b>A</b>	<b>G</b>	G	2067			
reag	C	T	A	G	<b>G</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>A</b>																									

**Fig. 10 cont.**



	1986	2147	2159
heag	G A C C T A C T G T G A T C T G C A T G T G A T C A A G C G G A T G C C C T G		
beag	G A C C T A C T G T G A C C T C A T G T G A T C A A G C G G A C G C C C T G		
reag	G A C C T A C T G T G A C C T G C A C G T G A T C A A G A G G A T G C C C T G		

	2026	2187	2199
heag	C A G A A A G T G C T G G A A T T C T A C A C G G C C T T C T C C C A T T C C T	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A T T C C T	C A G A A A G T G C T A G A A T T C T A C A C A G C C T T C T C C C A T T C C T
beag	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A T T C C T	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A T T C C T	C A G A A A G T G C T A G A A T T C T A C A C A G C C T T C T C C C A T T C C T
reag	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A T T C C T	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A T T C C T	C A G A A A G T G C T A G A A T T C T A C A C A G C C T T C T C C C A T T C C T

heag	T	C	T	C	C	G	G	A	A	C	C	T	G	A	T	T	C	T	G	A	C	T	T	G	A	G	A	G	2066		
beag	T	C	T	C	C	G	G	A	A	C	C	T	<b>C</b>	A	T	T	C	T	<b>C</b>	A	C	A	C	T	T	G	A	G	<b>C</b>	G	2227
reag	T	C	T	C	C	G	G	A	A	C	C	T	G	A	T	T	C	T	<b>C</b>	A	C	A	<b>T</b>	C	T	G	A	G	A	G	2239

[illegible]

heag	G	A	A	G	A	C	G	C	A	T	G	A	A	C	G	A	A	G	A	T	G	A	G	C	C	C	C	C	T	G	A	T	C	T	2146	
beag	G	A	<b>G</b>	G	A	<b>G</b>	C	G	C	A	T	G	A	<b>G</b>	C	G	A	A	G	A	T	G	A	G	C	C	C	C	C	T	G	A	T	C	<b>C</b>	2307
reag	G	A	<b>G</b>	G	A	<b>G</b>	G	A	<b>G</b>	A	T	G	A	<b>G</b>	A	C	G	A	A	G	A	<b>C</b>	G	A	G	C	C	C	C	C	T	<b>T</b>	A	T	<b>C</b>	2319

	T	G	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	A	G	A	G	A	T	T	2186	
heag	T	G	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	A	G	A	T	2347
beag	T	G	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	A	G	A	T	2359
regg	T	G	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	A	G	A	T	

heag	C	C	G	A	C	A	G	C	A	G	A	A	G	A	G	G	C	A	G	C	T	G	G	A	G	A	G	G	2226	
beag	C	C	G	C	C	A	G	C	A	G	A	A	G	A	G	G	C	C	A	G	C	T	G	G	A	G	A	G	C	2387
reag	C	C	G	C	C	A	G	C	A	G	A	A	G	A	G	G	C	C	A	G	C	T	G	G	A	G	A	G	T	2399

**Fig. 10 cont.**

heag	G	G	C	C	G	G	A	C	C	T	G	G	A	T	G	A	T	G	T	G	G	A	G	A	G	G	C	A	A	T	G	2266									
beag	G	G	<b>G</b>	C	G	G	A	C	<b>T</b>	T	G	G	A	<b>C</b>	G	A	C	C	T	<b>G</b>	G	A	C	G	A	A	G	G	C	A	<b>G</b>	C	2427								
reag	G	G	C	C	G	G	A	C	C	T	G	G	A	T	<b>G</b>	G	A	T	<b>G</b>	<b>A</b>	G	A	G	A	G	G	C	A	A	T	G	2439									
heag	T	C	C	T	T	A	C	A	G	C	A	T	G	C	C	T	C	C	G	C	C	A	A	C	C	A	G	C	C	T	C	G	T	G	A	A	2306				
beag	T	C	C	T	<b>C</b>	A	C	<b>C</b>	G	A	G	C	A	<b>C</b>	A	-	-	-	-	G	C	C	A	-	C	C	A	<b>G</b>	G	C	C	T	<b>G</b>	G	A	A	2461				
reag	<b>C</b>	C	C	T	<b>C</b>	A	C	<b>G</b>	A	<b>C</b>	<b>C</b>	A	T	<b>A</b>	C	C	T	<b>C</b>	A	G	C	C	A	A	C	C	A	G	C	C	T	<b>G</b>	T	G	A	A	2479				
heag	G	G	C	C	A	G	C	G	T	G	G	T	C	A	C	C	G	T	G	C	G	T	G	A	G	T	C	C	T	G	C	C	A	C	G	C	C	2346			
beag	G	G	C	C	A	G	C	G	T	<b>C</b>	G	T	C	A	C	C	G	T	<b>C</b>	C	G	<b>A</b>	G	A	G	<b>C</b>	C	C	T	G	C	C	A	C	G	C	C	2501			
reag	G	G	C	C	A	G	<b>T</b>	G	T	G	T	C	A	<b>C</b>	<b>G</b>	G	T	G	C	G	T	G	A	G	T	C	C	<b>C</b>	G	C	C	A	C	G	C	<b>T</b>	2519				
heag	G	T	A	T	C	C	T	T	C	C	A	G	G	C	A	G	C	C	T	C	C	A	C	C	T	C	C	G	G	G	T	G	C	C	A	G	A	C	C	2386	
beag	G	T	<b>G</b>	<b>G</b>	C	C	T	T	C	C	<b>G</b>	G	C	<b>G</b>	G	C	<b>C</b>	<b>T</b>	<b>G</b>	C	C	<b>C</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>G</b>	A	<b>T</b>	C	2541				
reag	G	T	<b>G</b>	T	C	C	T	T	C	C	A	G	G	C	A	G	C	C	T	C	C	A	C	C	T	C	C	<b>A</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>G</b>	<b>T</b>	<b>C</b>	A	G	A	C	C	2559
heag	A	C	G	C	A	A	G	C	T	A	C	A	G	G	C	C	C	A	G	G	T	C	C	G	A	G	T	G	C	C	T	G	G	C	C	A	C	C	2426		
beag	A	C	G	C	<b>C</b>	<b>C</b>	<b>G</b>	C	T	<b>G</b>	C	A	G	G	C	C	C	<b>T</b>	G	G	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>G</b>	C	C	C	C	2581			
reag	A	C	G	C	<b>C</b>	A	A	G	C	T	<b>G</b>	C	A	<b>T</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>G</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>T</b>	C	C	2599	
heag	C	A	A	G	G	G	G	C	G	G	C	C	A	T	T	G	T	G	C	C	A	A	G	C	C	A	A	A	G	C	C	T	G	G	A	C	T	G	G	2466	
beag	C	A	A	G	<b>C</b>	<b>C</b>	<b>G</b>	G	C	G	<b>C</b>	<b>C</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>G</b>	2621			
reag	C	A	A	G	<b>C</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>G</b>																													

**Fig. 10 cont.**

heag	A	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	T	G	A	G	T	C	G	A	T	G	G	A	C	A	C	T	T	C	C	C	G	A	2546		
beag	<b>G</b>	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	<b>C</b>	G	A	G	T	<b>C</b>	<b>C</b>	A	T	G	G	A	<b>A</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>G</b>	A	2701		
reag	A	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	<b>A</b>	G	A	G	T	<b>C</b>	<b>C</b>	A	T	G	G	A	<b>C</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>G</b>	A	2719			
heag	G	A	G	A	C	A	A	A	G	C	G	T	C	A	G	G	<b>C</b>	G	A	G	C	C	A	C	A	C	T	G	A	A	G	A	C	A	G	A	C	A	2586		
beag	G	A	G	A	C	<b>G</b>	A	A	<b>G</b>	G	C	<b>C</b>	<b>G</b>	C	<b>C</b>	<b>G</b>	<b>C</b>	G	A	G	C	C	A	C	A	C	T	<b>C</b>	A	A	G	A	A	<b>C</b>	<b>G</b>	A	C	A	2741		
reag	G	A	G	A	C	A	A	<b>G</b>	G	C	<b>A</b>	T	<b>C</b>	<b>G</b>	G	C	<b>G</b>	A	G	G	C	C	A	C	<b>G</b>	C	T	G	A	A	G	A	A	G	A	C	A	A	2759		
heag	G	A	C	T	C	G	T	G	T	G	A	C	A	G	T	G	G	C	A	T	C	A	C	C	A	A	G	A	G	C	G	A	C	T	T	G	C	C	2626		
beag	G	A	C	T	C	G	T	<b>C</b>	G	A	C	A	G	<b>C</b>	G	G	C	A	T	C	A	C	C	A	A	G	A	G	C	G	A	C	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>G</b>	A	2781		
reag	G	A	C	T	<b>C</b>	<b>C</b>	T	G	T	G	A	C	A	G	T	G	<b>A</b>	A	T	C	A	C	C	A	A	G	A	G	<b>T</b>	G	A	C	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>T</b>	A	2799		
heag	T	G	G	A	C	A	A	C	G	T	G	G	G	T	G	A	G	G	C	C	A	G	T	C	C	C	A	G	A	T	C	G	G	A	G	A	G	2666			
beag	T	G	G	A	C	A	A	C	G	T	G	G	G	<b>C</b>	G	A	G	G	C	C	A	G	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	A	2821			
reag	T	G	G	A	C	A	<b>T</b>	G	T	G	G	G	T	G	A	G	G	C	C	A	G	T	C	C	C	C	C	A	G	A	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	A	2839		
heag	T	C	C	C	A	T	C	C	T	G	G	C	A	G	A	G	G	T	C	A	A	G	C	A	T	T	C	G	T	T	C	T	A	C	C	C	A	T	C	2706	
beag	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	A	T	<b>C</b>	T	G	G	C	<b>T</b>	T	G	G	C	<b>G</b>	A	G	G	T	C	A	A	G	C	<b>A</b>	<b>C</b>	<b>T</b>	T	C	T	A	C	C	C	A	T	C	2861	
reag	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	A	T	<b>C</b>	T	G	G	C	<b>C</b>	<b>G</b>	A	G	G	T	C	A	A	G	C	A	T	T	C	T	T	C	T	A	C	C	C	C	A	T	C	2879		
heag	C	C	T	G	A	G	C	A	G	C	C	T	G	C	C	T	G	C	C	A	G	G	C	C	A	C	A	G	T	C	C	T	G	A	G	G	C	C	2746		
beag	C	C	<b>C</b>	<b>G</b>	A	G	C	A	G	A	C	G	C	T	G	C	C	T	G	C	A	G	G	C	<b>C</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	A	2901		
reag	C	C	<b>C</b>	<b>G</b>	A	G	C	A	G	A	C	<b>A</b>	C	T	G	C	C	A	G	G	C	C	A	C	A	G	T	<b>G</b>	C	T	G	A	G	G	T	G	A	A	G	C	2919
heag	A	C	G	A	G	C	T	G	A	A	G	G	A	G	G	A	C	A	T	C	A	A	G	G	C	T	T	A	A	A	C	G	C	C	A	A	A	A	T	2786	
beag	A	C	G	A	G	C	T	<b>C</b>	A	A	G	G	A	G	A	C	A	T	C	A	A	G	G	C	C	T	T	<b>G</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	A	T	2941
reag	A	<b>T</b>	G	A	G	C	T	G	A	A	G	G	A	<b>A</b>	G	A	C	A	T	C	A	A	G	G	C	C	T	T	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>A</b>	A	T	2959

Fig. 10 cont.

heag	G	A	C	C	A	A	T	A	T	T	G	A	G	A	A	C	A	G	C	T	C	T	G	A	G	A	T	A	C	T	C	A	G	A	T	A	2826	
beag	G	A	C	C	<b>G</b>	<b>A</b>	<b>G</b>	<b>C</b>	A	T	T	G	A	G	A	A	C	A	G	C	T	C	T	G	A	G	A	T	A	C	T	C	A	G	A	T	A	2981
reag	G	A	C	C	<b>T</b>	<b>C</b>	<b>C</b>	<b>A</b>	T	T	G	A	G	A	<b>G</b>	<b>C</b>	A	G	C	<b>T</b>	<b>G</b>	<b>T</b>	C	T	G	A	G	A	<b>C</b>	T	C	A	G	A	T	A	2999	
heag	T	T	A	A	C	<b>T</b>	<b>T</b>	<b>C</b>	C	A	G	A	A	G	A	T	C	C	T	C	T	C	A	G	T	T	C	T	C	A	G	A	G	T	T	G	T	2866
beag	T	T	A	A	C	<b>C</b>	<b>T</b>	<b>C</b>	C	A	G	A	A	G	A	T	C	C	T	C	<b>G</b>	<b>C</b>	C	T	G	A	G	A	<b>G</b>	<b>C</b>	<b>T</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>A</b>	<b>T</b>	3021	
reag	<b>C</b>	<b>T</b>	<b>C</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>T</b>	<b>C</b>	C	A	G	A	<b>G</b>	<b>G</b>	<b>T</b>	<b>C</b>	C	A	G	T	C	<b>C</b>	<b>G</b>	<b>C</b>	A	G	A	<b>C</b>	A	G	A	<b>C</b>	A	C	G	T	3039	
heag	T	T	G	A	A	T	A	T	C	G	A	G	G	C	C	A	C	A	G	T	C	C	C	C	A	G	A	T	C	A	G	A	G	A	G	A	2906	
beag	T	T	G	A	A	T	A	T	C	G	A	G	G	C	C	<b>C</b>	C	A	G	T	C	C	C	C	A	G	A	<b>G</b>	<b>T</b>	C	A	G	A	G	A	G	A	3061
reag	<b>G</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>C</b>	C	A	G	T	C	C	C	C	A	G	A	<b>G</b>	<b>T</b>	C	A	G	A	<b>C</b>	A	G	A	3079
heag	C	A	T	T	T	T	G	G	A	G	C	C	A	G	C	T	G	A	G	G	T	C	T	A	T	T	-	T	A	A	A	A	A	A	A	A	A	2945
beag	C	A	T	T	T	T	G	G	<b>C</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	T	G	A	G	A	G	T	<b>G</b>	<b>T</b>	<b>T</b>	<b>G</b>	T	A	A	A	A	A	A	A	A	A	A	3101
reag	C	A	T	T	T	T	G	G	<b>G</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	T	G	A	G	A	<b>G</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>A</b>	T	T	<b>T</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>C</b>	3119
heag	G	-	-	-	-	-	-	-	-	T	C	-	-	A	G	A	-	G	A	C	A	G	A	T	A	C	C	T	C	C	A	A	C	C	T	G	C	2973
beag	<b>G</b>	<b>A</b>	<b>A</b>	<b>-</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>C</b>	3140	
reag	<b>A</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>T</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>-</b>	<b>-</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	<b>C</b>	<b>-</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>C</b>	3156	
heag	-	-	-	-	-	-	-	-	-	G	T	C	A	C	C	A	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2992	
beag	<b>C</b>	<b>T</b>	<b>A</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>-</b>	<b>T</b>	<b>A</b>	<b>C</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	3179	
reag	<b>C</b>	<b>C</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>T</b>	<b>T</b>	<b>C</b>	<b>T</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>G</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>T</b>	<b>G</b>	<b>A</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>C</b>	<b>A</b>	3196	
heag	C	C	C	G	G	A	A	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3002	
beag	<b>T</b>	<b>T</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>G</b>	<b>T</b>	<b>A</b>	<b>G</b>	<b>G</b>	<b>C</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	3200	
reag	<b>T</b>	<b>T</b>	<b>C</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	3200	

Fig. 10 cont.

heag1	M	T	M	A	G	G	R	R	G	L	V	A	P	Q	N	T	F	L	E	N	20
heag2	M	T	M	A	G	G	R	R	G	L	V	A	P	Q	N	T	F	L	E	N	20
beag1	M	T	M	A	G	G	R	<b>K</b>	G	L	V	A	P	Q	N	T	F	L	E	N	20
beag2	M	T	M	A	G	G	R	<b>K</b>	G	L	V	A	P	Q	N	T	F	L	E	N	20
meag	M	T	M	A	G	G	R	R	G	L	V	A	P	Q	N	T	F	L	E	N	20
reag	M	T	M	A	G	G	R	R	G	L	V	A	P	Q	N	T	F	L	E	N	20
heag1	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
heag2	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
beag1	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
beag2	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
meag	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
reag	I	V	R	R	S	N	D	T	N	F	V	L	G	N	A	Q	I	V	D	W	40
heag1	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
heag2	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
beag1	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
beag2	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
meag	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
reag	P	I	V	Y	S	N	D	G	F	C	K	L	S	G	Y	H	R	A	E	V	60
heag1	M	Q	K	S	S	T	C	S	F	M	Y	G	E	L	T	D	K	D	T	I	80
heag2	M	Q	K	S	S	T	C	S	F	M	Y	G	E	L	T	D	K	D	T	I	80
beag1	M	Q	K	S	S	T	C	S	F	M	Y	G	E	L	T	D	K	D	T	I	80
beag2	M	Q	K	S	S	T	C	S	F	M	Y	G	E	L	T	D	K	D	T	I	80
meag	M	Q	K	S	S	<b>A</b>	C	S	F	M	Y	G	E	L	T	D	K	D	T	<b>V</b>	80
reag	M	Q	K	S	S	<b>A</b>	C	S	F	M	Y	G	E	L	T	D	K	D	T	<b>V</b>	80
heag1	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100
heag2	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100
beag1	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100
beag2	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100
meag	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100
reag	E	K	V	R	Q	T	F	E	N	Y	E	M	N	S	F	E	I	L	M	Y	100

Fig. 11

**Fig. 11 cont.**

heag1	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300
heag2	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300
beag1	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300
beag2	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300
meag	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300
reag	I	S	D	P	K	L	I	R	M	N	Y	L	K	T	W	F	V	I	D	L	300

**Fig. 11 cont.**

heag1 L S C L P Y D V I N A F E N V D E - - - 317  
 heag2 L S C L P Y D V I N A F E N V D E V S A 320  
 beag1 L S C L P Y D V I N A F E N V D E - - - 317  
 beag2 L S C L P Y D V I N A F E N V D E V S A 320  
 meag L S C L P Y D V I N A F E N V D E V S A 320  
 reag L S C L P Y D V I N A F E N V D E - - - 317

heag1 - - - - - 317  
 heag2 F M G D P G K I G F A D Q I P P P L E G 340  
 beag1 - - - - - 317  
 beag2 F M G D P G K I G F A D Q I P P P L E G 340  
 meag F M G D P G K I G F A D Q I P P P L E G 340  
 reag - - - - - 317

heag1 - - - - G I S S L F S S L K V V R L L R 333  
 heag2 R E S Q G I S S L F S S L K V V R L L R 360  
 beag1 - - - - G I S S L F S S L K V V R L L R 333  
 beag2 R E S Q G I S S L F S S L K V V R L L R 360  
 meag R E S Q G I S S L F S S L K V V R L L R 360  
 reag - - - - G I S S L F S S L K V V R L L R 333

heag1 L G R V A R K L D H Y I E Y G A A V L V 353  
 heag2 L G R V A R K L D H Y I E Y G A A V L V 380  
 beag1 L G R V A R K L D H Y I E Y G A A V L V 353  
 beag2 L G R V A R K L D H Y I E Y G A A V L V 380  
 meag L G R V A R K L D H Y I E Y G A A V L V 380  
 reag L G R V A R K L D H Y I E Y G A A V L V 353

heag1 L L V C V F G L A A H W M A C I W Y S I 373  
 heag2 L L V C V F G L A A H W M A C I W Y S I 400  
 beag1 L L V C V F G L A A H W M A C I W Y S I 373  
 beag2 L L V C V F G L A A H W M A C I W Y S I 400  
 meag L L V C V F G L A A H W M A C I W Y S I 400  
 reag L L V C V F G L A A H W M A C I W Y S I 373

Fig. 11 cont.



heag1	V A I M M I G S L L Y A T I F G N V T T	473
heag2	V A I M M I G S L L Y A T I F G N V T T	500
beag1	V A I M M I G S L L Y A T I F G N V T T	473
beag2	V A I M M I G S L L Y A T I F G N V T T	500
meag	V A I M M I G S L L Y A T I F G N V T T	500
reag	V A I M M I G S L L Y A T I F G N V T T	473

**Fig. 11 cont.**

heag1 I F Q Q M Y A N T N R Y H E M L N S V R 493  
 heag2 I F Q Q M Y A N T N R Y H E M L N S V R 520  
 beag1 I F Q Q M Y A N T N R Y H E M L N S V R 493  
 beag2 I F Q Q M Y A N T N R Y H E M L N S V R 520  
 meag I F Q Q M Y A N T N R Y H E M L N S V R 520  
 reag I F Q Q M Y A N T N R Y H E M L N S V R 493

heag1 D F L K L Y Q V P K G L S E R V M D Y I 513  
 heag2 D F L K L Y Q V P K G L S E R V M D Y I 540  
 beag1 D F L K L Y Q V P K G L S E R V M D Y I 513  
 beag2 D F L K L Y Q V P K G L S E R V M D Y I 540  
 meag D F L K L Y Q V P K G L S E R V M D Y I 540  
 reag D F L K L Y Q V P K G L S E R V M D Y I 513

heag1 V S T W S M S R G I D T E K V L Q I C P 533  
 heag2 V S T W S M S R G I D T E K V L Q I C P 560  
 beag1 V S T W S M S R G I D T E K V L Q I C P 533  
 beag2 V S T W S M S R G I D T E K V L Q I C P 560  
 meag V S T W S M S R G I D T E K V L Q I C P 560  
 reag V S T W S M S R G I D T E K V L Q I C P 533

heag1 K D M R A D I C V H L N R K V F K E H P 553  
 heag2 K D M R A D I C V H L N R K V F K E H P 580  
 beag1 K D M R A D I C V H L N R K V F K E H P 553  
 beag2 K D M R A D I C V H L N R K V F K E H P 580  
 meag K D M R A D I C V H L N R K V F K E H P 580  
 reag K D M R A D I C V H L N R K V F K E H P 553

heag1 A F R L A S D G C L R A L A M E F Q T V 573  
 heag2 A F R L A S D G C L R A L A M E F Q T V 600  
 beag1 A F R L A S D G C L R A L A M E F Q T V 573  
 beag2 A F R L A S D G C L R A L A M E F Q T V 600  
 meag A F R L A S D G C L R A L A M E F Q T V 600  
 reag A F R L A S D G C L R A L A M E F Q T V 573

Fig. 11 cont.

heag1	H C A P G D L I Y H A G E S V D S L C F	593
heag2	H C A P G D L I Y H A G E S V D S L C F	620
beag1	H C A P G D L I Y H A G E S V D S L C F	593
beag2	H C A P G D L I Y H A G E S V D S L C F	620
meag	H C A P G D L I Y H A G E S V D S L C F	620
reag	H C A P G D L I Y H A G E S V D S L C F	593
heag1	V V S G S L E V I Q D D E V V A I L G K	613
heag2	V V S G S L E V I Q D D E V V A I L G K	640
beag1	V V S G S L E V I Q D D E V V A I L G K	613
beag2	V V S G S L E V I Q D D E V V A I L G K	640
meag	V V S G S L E V I Q D D E V V A I L G K	640
reag	V V S G S L E V I Q D D E V V A I L G K	613
heag1	G D V F G D V F W K E A T L A Q S C A N	633
heag2	G D V F G D V F W K E A T L A Q S C A N	660
beag1	G D V F G D V F W K E A T L A Q S C A N	633
beag2	G D V F G D V F W K E A T L A Q S C A N	660
meag	G D V F G D V F W K E A T L A Q S C A N	660
reag	G D V F G D V F W K E A T L A Q S C A N	633
heag1	V R A L T Y C D L H V I K R D A L Q K V	653
heag2	V R A L T Y C D L H V I K R D A L Q K V	680
beag1	V R A L T Y C D L H V I K R D A L Q K V	653
beag2	V R A L T Y C D L H V I K R D A L Q K V	680
meag	V R A L T Y C D L H V I K R D A L Q K V	680
reag	V R A L T Y C D L H V I K R D A L Q K V	653
heag1	L E F Y T A F S H S F S R N L I L T Y N	673
heag2	L E F Y T A F S H S F S R N L I L T Y N	700
beag1	L E F Y T A F S H S F S R N L I L T Y N	673
beag2	L E F Y T A F S H S F S R N L I L T Y N	700
meag	L E F Y T A F S H S F S R N L I L T Y N	700
reag	L E F Y T A F S H S F S R N L I L T Y N	673

Fig. 11 cont.

**Fig. 11 cont.**

**Fig. 11 cont.**

heag1	Q	A	A	S	T	S	G	V	P	D	H	A	K	L	Q	A	P	G	S	E	793
heag2	Q	A	A	S	T	S	G	V	P	D	H	A	K	L	Q	A	P	G	S	E	820
beag1	P	A	A	A	A	P	A	G	L	D	H	A	R	L	Q	A	P	G	A	E	791
beag2	P	A	A	A	A	P	A	G	L	D	H	A	R	L	Q	A	P	G	A	E	818
meag	Q	A	A	T	T	S	T	M	S	D	H	A	K	L	H	A	P	G	S	E	820
reag	Q	A	A	S	T	S	T	V	S	D	H	A	K	L	H	A	P	G	S	E	793
heag1	C	L	G	P	K	G	G	G	G	D	C	A	K	R	K	S	W	A	R	F	813
heag2	C	L	G	P	K	G	G	G	G	D	C	A	K	R	K	S	W	A	R	F	840
beag1	G	L	G	P	K	A	G	G	A	D	C	A	K	R	K	G	W	A	R	F	811
beag2	G	L	G	P	K	A	G	G	A	D	C	A	K	R	K	G	W	A	R	F	838
meag	C	L	G	P	K	A	V	S	C	D	P	A	K	R	K	G	W	A	R	F	840
reag	C	L	G	P	K	A	G	G	G	D	P	A	K	R	K	G	W	A	R	F	813
heag1	K	D	A	C	G	K	S	E	D	W	N	K	V	S	K	A	E	S	M	E	833
heag2	K	D	A	C	G	K	S	E	D	W	N	K	V	S	K	A	E	S	M	E	860
beag1	K	D	A	C	G	Q	A	E	D	W	S	K	V	S	K	A	E	S	M	E	831
beag2	K	D	A	C	G	Q	A	E	D	W	S	K	V	S	K	A	E	S	M	E	858
meag	K	D	A	C	G	K	G	E	D	W	N	K	V	S	K	A	E	S	M	E	860
reag	K	D	A	C	G	K	G	E	D	W	N	K	V	S	K	A	E	S	M	E	833
heag1	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	853
heag2	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	880
beag1	T	L	P	E	R	T	K	A	A	G	E	A	T	L	K	K	T	D	S	C	851
beag2	T	L	P	E	R	T	K	A	A	G	E	A	T	L	K	K	T	D	S	C	878
meag	T	L	P	E	R	T	K	A	P	G	E	A	T	L	K	K	T	D	S	C	880
reag	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	853
heag1	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	873
heag2	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	900
beag1	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	871
beag2	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	898
meag	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	T	R	S	P	900
reag	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	873

Fig. 11 cont.

**Fig. 11 cont.**

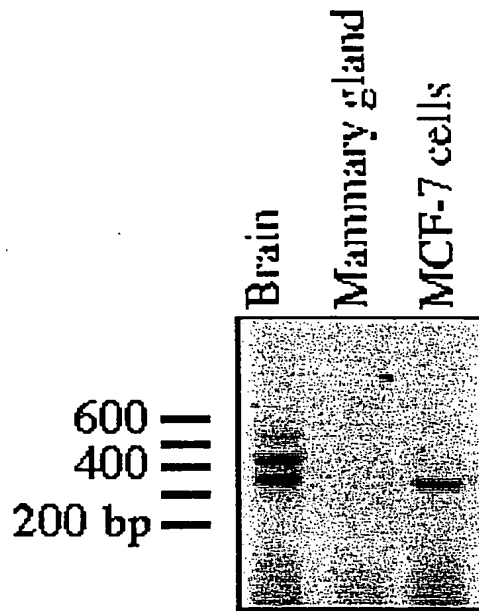


Fig. 12

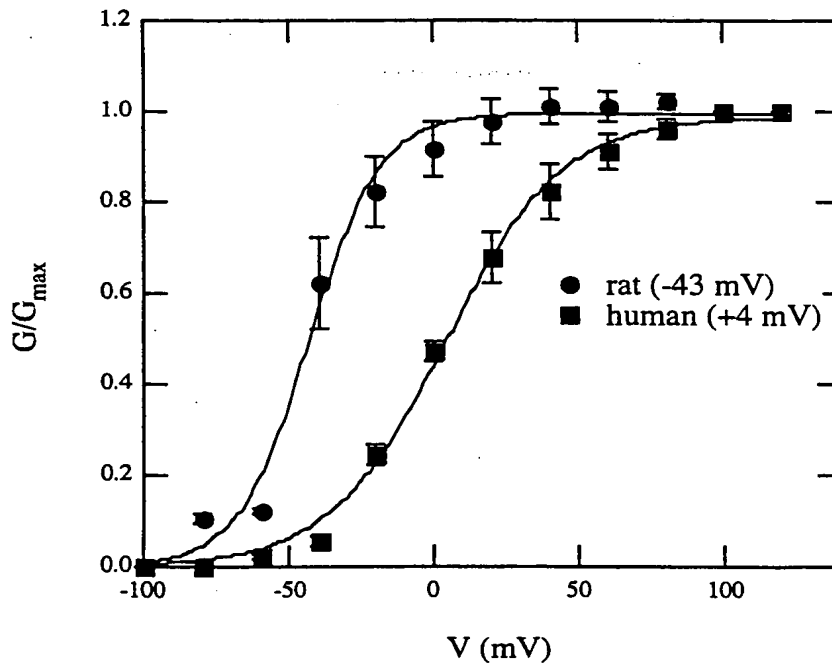


Fig. 13

DNA	Colonies $\geq 0.1$ mm
rEAG-pTracer	$9.9 \pm 2.4$
rEAG-pcDNA3	$8.5 \pm 3.2$
rKv1.4-pTracer	0
rKv1.4-pcDNA3	$1.4 \pm 0.7$
GFP-pcDNA3	$0.8 \pm 0.5$
Transfection buffer	$0.6 \pm 0.2$
No treatment	0

Fig. 14



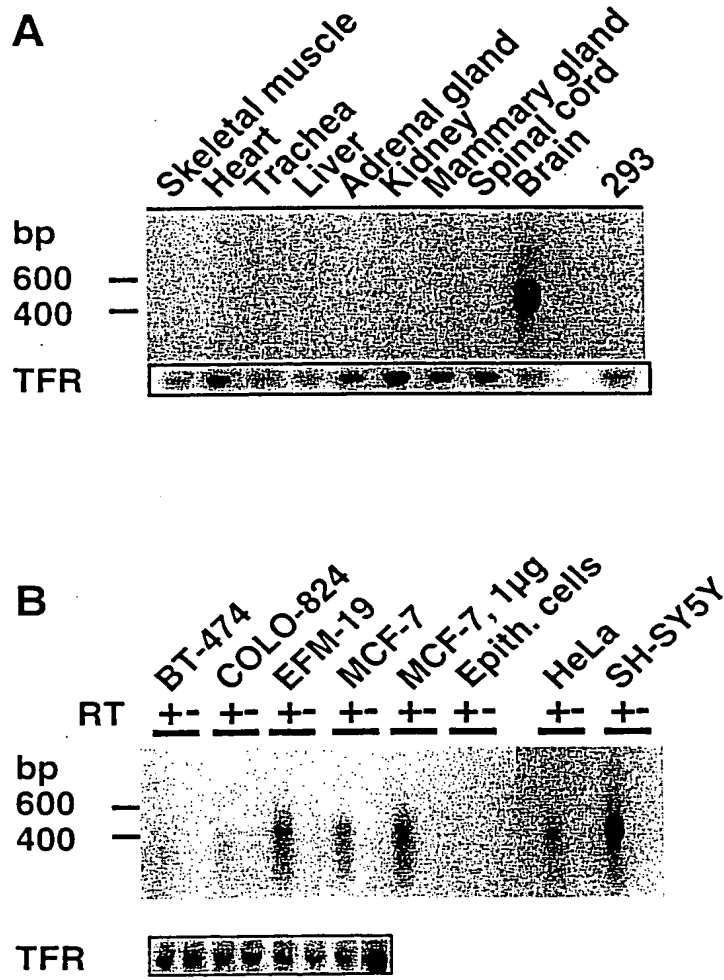


Fig. 15

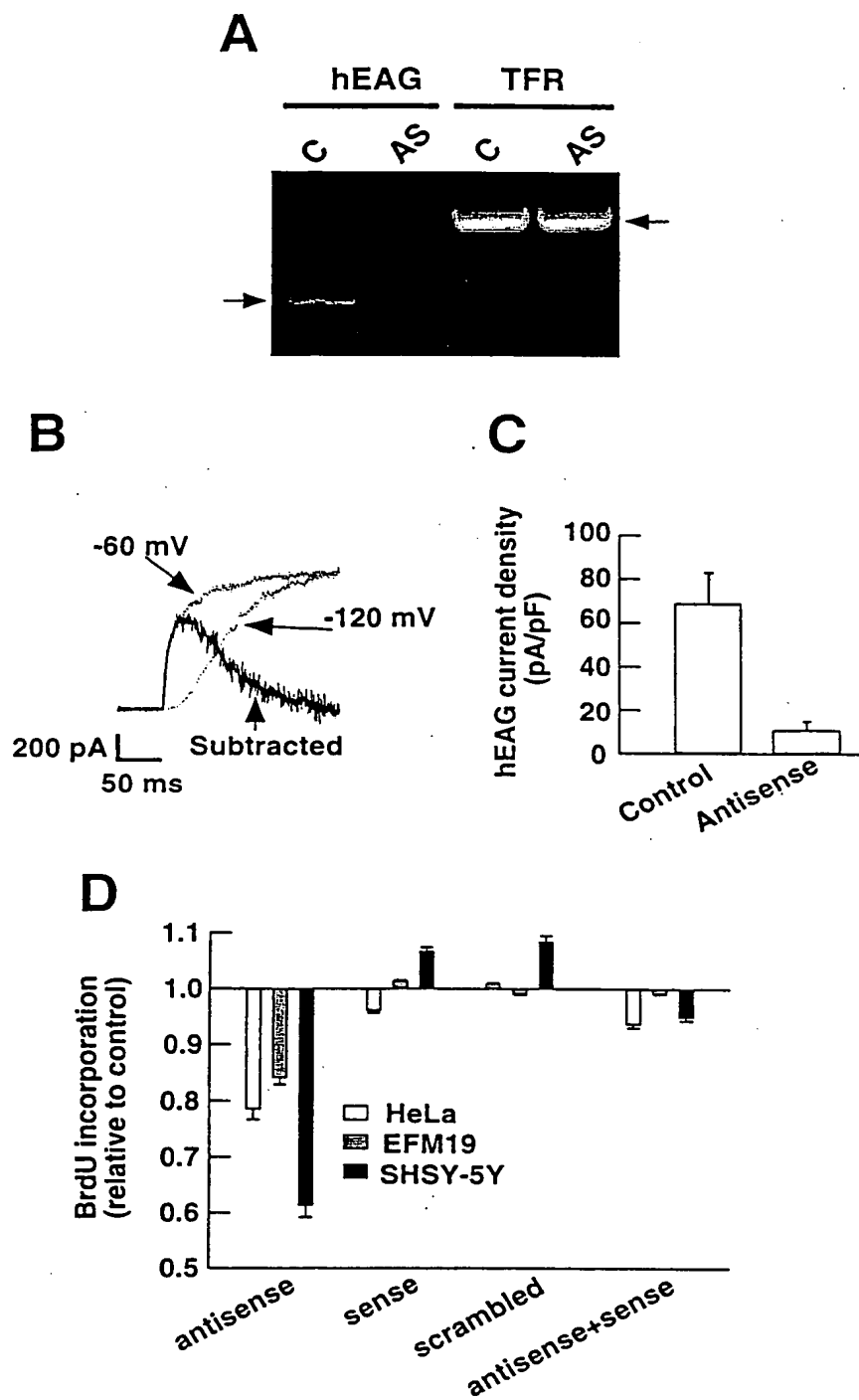


Fig. 16

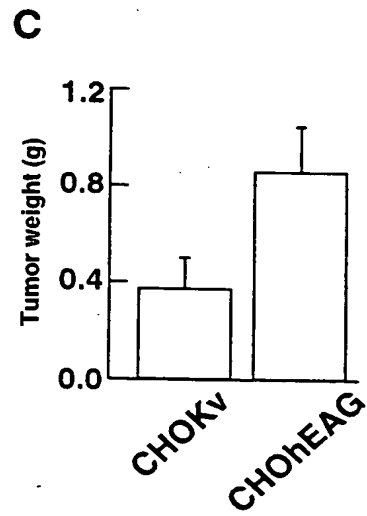
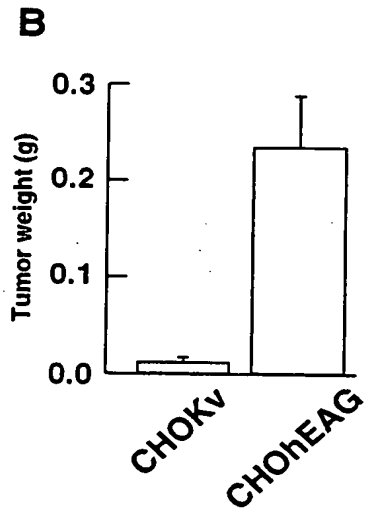
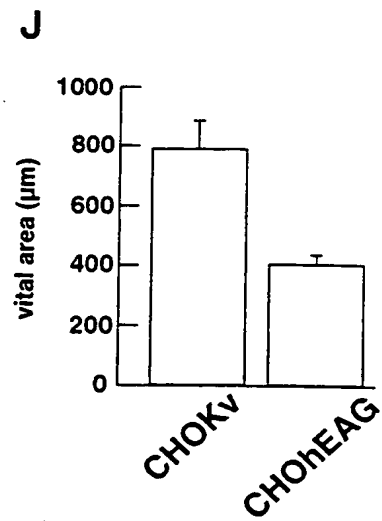
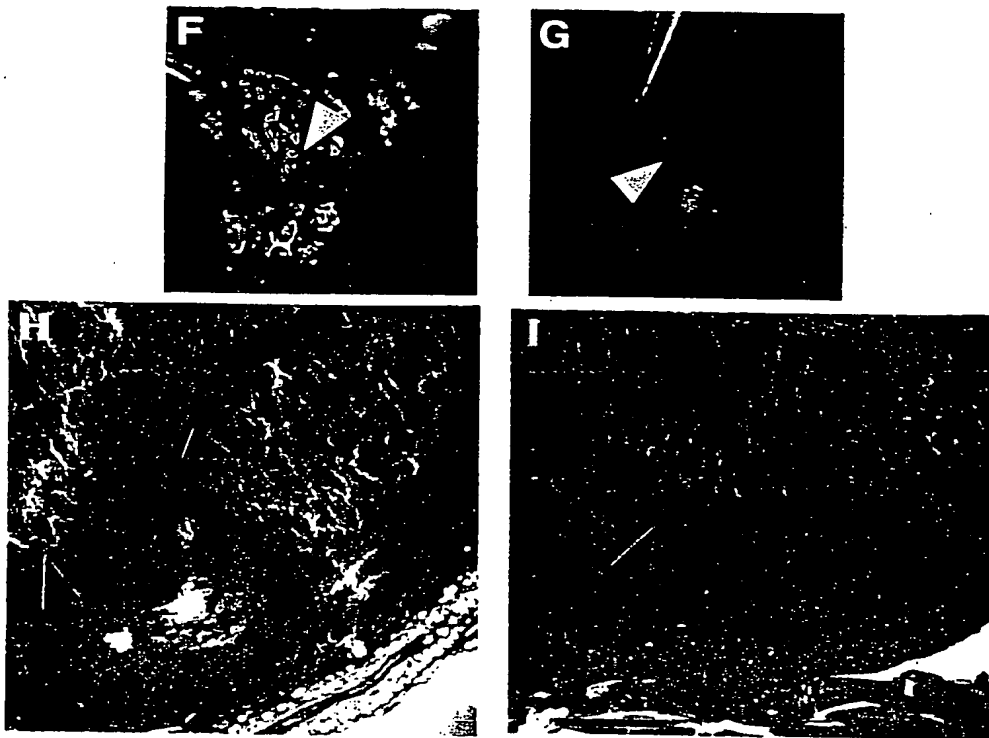


Fig. 17



**Fig. 17 cont.**

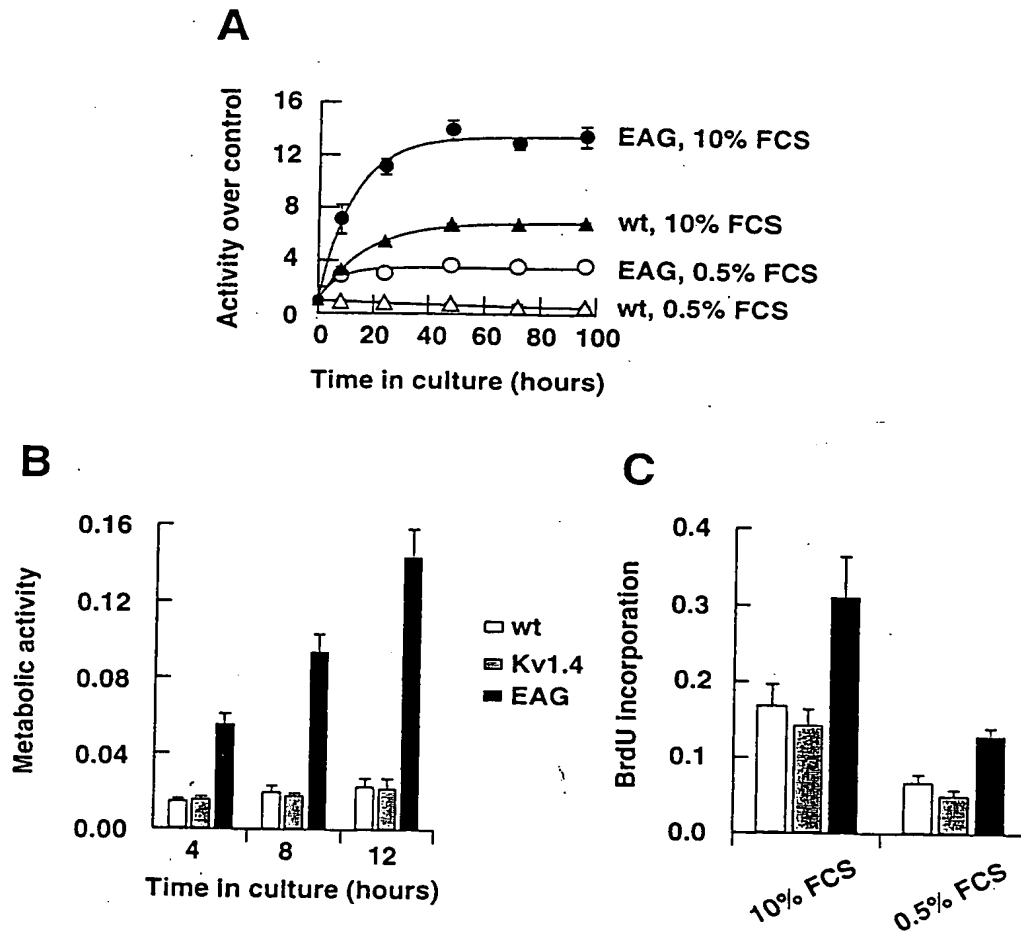


Fig. 18